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PTO/SB/05 (08-00)  
Approved for use through 10/31/2002 OMB 0651-0032  
U S Patent and Trademark Office, U S DEPARTMENT OF COMMERCE

# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 4532670/59100 (Kembc)  
First Inventor Fayad Sheabar  
Title Process for Binding Carotenoids to Proteins and the Products Thereof  
Express Mail Label No EL 865248164 US

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 27]  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 1]
5. Oath or Declaration [Total Pages ]
  - a. ☐ Newly executed (original or copy)
  - b. ☐ Copy from a prior application (37 CFR 1.63 (d))  
(for continuation/divisional with Box 17 completed)
    - i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
  - a. ☐ Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i. ☐ CD-ROM or CD-R (2 copies); or
    - ii. ☐ paper
  - c. ☐ Statements verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney  
(when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☐ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16. ☒ Other: postcard

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No. /

Prior application information

Examiner

Group / Art Unit.

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

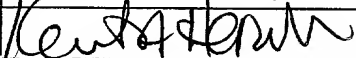
## 18. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Label

(Insert Customer No. or Attach bar code label here)

or ☒ Correspondence address below

|         |   |           |              |          |              |
|---------|---|-----------|--------------|----------|--------------|
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| Address | The Financial Center<br>666 Walnut Street, Suite 2500 |           |              |          |              |
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|                   |   |                                   |                    |
|-------------------|---|-----------------------------------|--------------------|
| Name (Print/Type) | Kent A. Herink  | Registration No. (Attorney/Agent) | 31,025             |
| Signature         |  |                                   | Date March 1, 2002 |

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# FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision

TOTAL AMOUNT OF PAYMENT (\$ 740.00)

**Complete if Known**

|                      |                        |
|----------------------|------------------------|
| Application Number   | to be assigned         |
| Filing Date          | March 1, 2002          |
| First Named Inventor | Fayad Sheabar          |
| Examiner Name        | to be assigned         |
| Group Art Unit       | to be assigned         |
| Attorney Docket No.  | 4532670/59100 (KEM 60) |

**METHOD OF PAYMENT**

- 1.
- ☒
- The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit  
Account  
Number

12-2250

Deposit  
Account  
Name

Davis, Brown Law Firm

☒ Charge Any Additional Fee Required  
Under 37 CFR 1.16 and 1.17☐ Applicant claims small entity status  
See 37 CFR 1.27

- 2.
- ☒
- Payment Enclosed:

☒ Check ☐ Credit card ☐ Money  
Order ☐ Other**FEE CALCULATION****1. BASIC FILING FEE**

| Large Entity<br>Fee Code (\$) | Small Entity<br>Fee Code (\$) | Fee Description        | Fee Paid |
|-------------------------------|-------------------------------|------------------------|----------|
| 101 740                       | 201 355                       | Utility filing fee     | 740.00   |
| 106 320                       | 206 160                       | Design filing fee      |          |
| 107 490                       | 207 245                       | Plant filing fee       |          |
| 108 710                       | 208 355                       | Reissue filing fee     |          |
| 114 150                       | 214 75                        | Provisional filing fee |          |

SUBTOTAL (1) (\$ 740.00)

**2. EXTRA CLAIM FEES**

| Total Claims       | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------------|----------------|----------|
| Independent Claims | -20** =      | X              |          |
| Multiple Dependent | -3** =       | X              |          |

| Large Entity<br>Fee Code (\$) | Small Entity<br>Fee Code (\$) | Fee Description  |
|-------------------------------|-------------------------------|--|
| 103 18                        | 203 9                         | Claims in excess of 20                                     |
| 102 80                        | 202 40                        | Independent claims in excess of 3                          |
| 104 270                       | 204 135                       | Multiple dependent claim, if not paid                      |
| 109 80                        | 209 40                        | ** Reissue independent claims over original patent         |
| 110 18                        | 210 9                         | ** Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) (\$)

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

| Large Entity<br>Fee Code (\$) | Small Entity<br>Fee Code (\$) | Fee Description  | Fee Paid |
|-------------------------------|-------------------------------|--|----------|
| 105 130                       | 205 65                        | Surcharge - late filing fee or oath  |          |
| 127 50                        | 227 25                        | Surcharge - late provisional filing fee or cover sheet                     |          |
| 139 130                       | 139 130                       | Non-English specification  |          |
| 147 2,520                     | 147 2,520                     | For filing a request for ex parte reexamination                            |          |
| 112 920*                      | 112 920*                      | Requesting publication of SIR prior to Examiner action                     |          |
| 113 1,840*                    | 113 1,840*                    | Requesting publication of SIR after Examiner action                        |          |
| 115 110                       | 215 55                        | Extension for reply within first month                                     |          |
| 116 390                       | 216 195                       | Extension for reply within second month                                    |          |
| 117 890                       | 217 445                       | Extension for reply within third month                                     |          |
| 118 1,390                     | 218 695                       | Extension for reply within fourth month                                    |          |
| 128 1,890                     | 228 945                       | Extension for reply within fifth month                                     |          |
| 119 310                       | 219 155                       | Notice of Appeal   |          |
| 120 310                       | 220 155                       | Filing a brief in support of an appeal                                     |          |
| 121 270                       | 221 135                       | Request for oral hearing   |          |
| 138 1,510                     | 138 1,510                     | Petition to institute a public use proceeding                              |          |
| 140 110                       | 240 55                        | Petition to revive - unavoidable   |          |
| 141 1,240                     | 241 620                       | Petition to revive - unintentional   |          |
| 142 1,240                     | 242 620                       | Utility issue fee (or reissue)   |          |
| 143 440                       | 243 220                       | Design issue fee   |          |
| 144 600                       | 244 300                       | Plant issue fee  |          |
| 122 130                       | 122 130                       | Petitions to the Commissioner  |          |
| 123 50                        | 123 50                        | Petitions related to provisional applications                              |          |
| 126 240                       | 126 240                       | Submission of Information Disclosure Stmt                                  |          |
| 581 40                        | 581 40                        | Recording each patent assignment per property (times number of properties) |          |
| 146 710                       | 246 355                       | Filing a submission after final rejection (37 CFR § 1.129(a))              |          |
| 149 710                       | 249 355                       | For each additional invention to be examined (37 CFR § 1.129(b))           |          |
| 179 710                       | 279 355                       | Request for Continued Examination (RCE)                                    |          |
| 169 900                       | 169 900                       | Request for expedited examination of a design application                  |          |

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

**SUBMITTED BY**

Name (Print/Type) Kent A. Herink

Registration No  
(Attorney/Agent)

31,025

**Complete (if applicable)**

Telephone 515-288-2500

Signature

Date March 1, 2002

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